

Project Design Phase

Solution Architecture

Date	26 June 2025
Team ID	LTVIP2025TMID5517 3
Project Name	LearnHub
Max Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions.

Its goals are to:

- Find the best tech solution to solve existing business problems.
 - Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
 - Define features, development phases, and solution requirements.
 - Provide specifications according to which the solution is defined, managed, and delivered.
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Example – Solution Architecture Diagram:

The diagram below illustrates the major components of the LearnHub platform:

- **User Interface** → **Web Server** → **API Gateway**
- **API Gateway** connects to both **Login Service** and **Signup Service**
- These interact with the **Authentication Service**

- Upon success, users can access:
 - **Mark Pages as Complete**
 - **Enroll in Course** → connected to **Database**
 - **Generate Certificate**
 - **Profile Access**
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